

Turmdrehkran

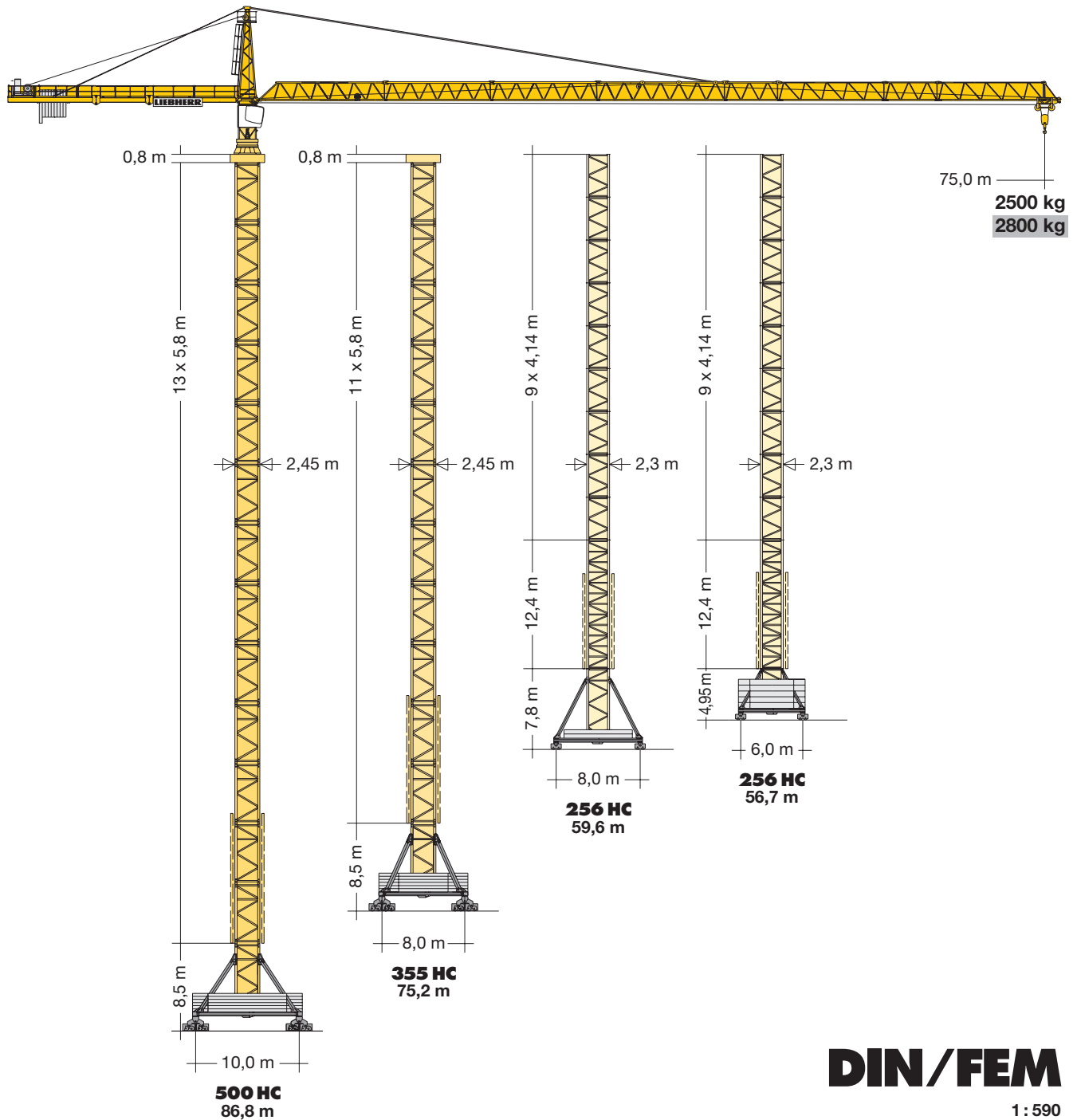
Tower Crane / Grue à tour / Gru a torre
Grúa torre / Guindaste de torre

280 EC-H 12 FR.tronic®

280 EC-H 12 Litronic®

280 EC-H 12 FR.tronic®
280 EC-H 12 Litronic®

280 EC-H 16 FR.tronic®
280 EC-H 16 Litronic®

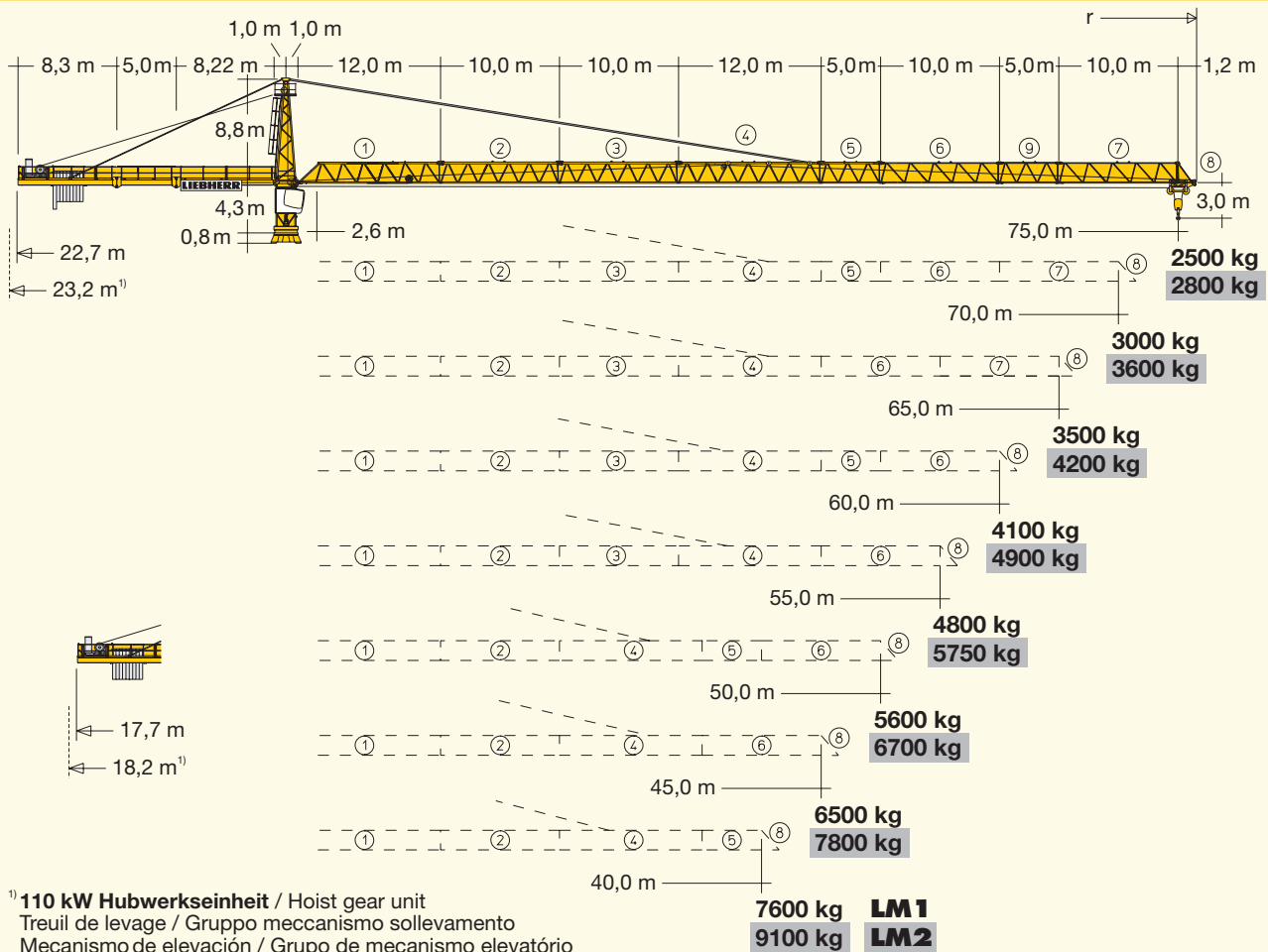


DIN/FEM

1:590

LIEBHERR

Courtesy of Crane.Market



Hubhöhe

Hoisting height / Hauteur sous crochet / Altezza di sollevamento / Altura bajo gancho / Altura de montagem

	256 HC		355 HC		500 HC	
13	-	-	-	-	-	-
12	-	-	-	-	-	-
11	-	-	-	-	67,1*	75,2*
10	-	-	-	-	61,3	69,4
9	52,0**	56,7**	52,0**	59,6**	55,5	63,6
8	47,9**	52,6**	47,9**	55,5**	49,7	57,8
7	43,7	48,4	43,7	51,3	43,9	52,0
6	39,6	44,3	39,6	47,2	38,1	46,2
5	35,4	40,1	35,4	43,0	32,3	40,4
4	31,3	36,0	31,3	38,9	26,5	34,6
3	27,2	31,9	27,2	34,8	20,7	28,8
2	23,0	27,7	23,0	30,6	14,9	23,0
1	18,9	23,6	18,9	26,5	9,1	17,2
0	14,7	19,4	14,7	22,3	3,3	11,4
	m	m	m	m	m	m

* xx **LM 2** Nicht möglich. / Not possible. / Pas possible. / Non possibile. / No posible. / Nao é possível.

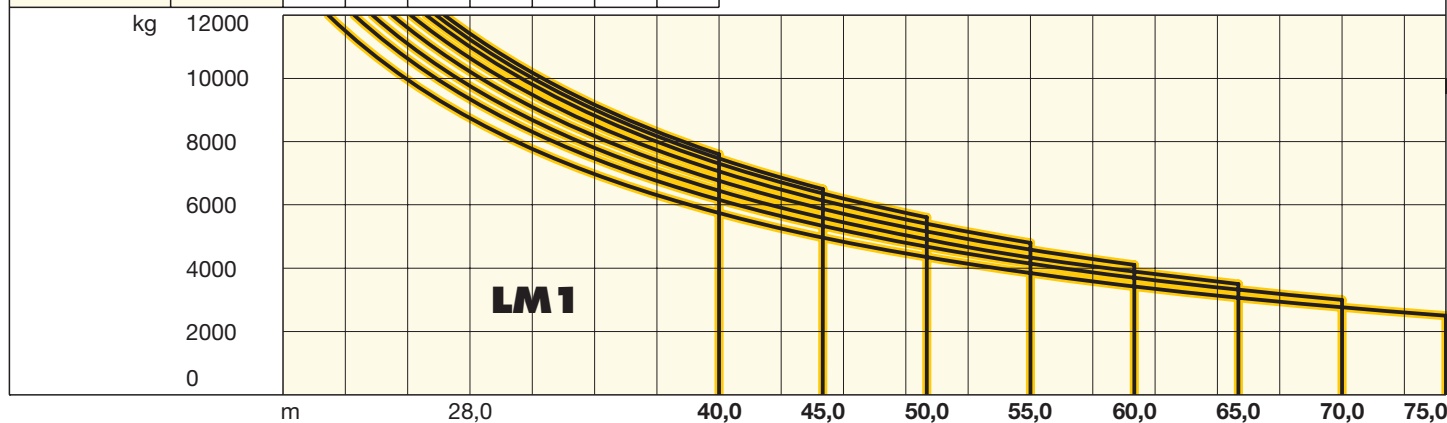
** **Weitere Hubhöhen, Auslegerlängen sowie Klettern im Gebäude auf Anfrage.** / Further hoist heights and jib lengths as well as climbing inside the building on request. / Autres hauteurs sous crochet et longueurs de flèche ainsi que hissage dans le bâtiment sur demande. / Ulteriori altezze gancho, lunghezze braccio così come telescopaggio all'interno dell'edificio: su richiesta. / Para alturas bajo gancho superiores, otros alcances y trepado en el interior del edificio, consultar. / Outras alturas de elevação, comprimentos de lança e subida no edifício: sob consulta.

Ausladung und Tragfähigkeit

Radius and capacity / Portée et charge / Sbraccio e portata / Alcances y cargas / Alcance e capacidade de carga

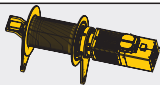
		280 EC-H 12 FR.tronic®															
m	r	m/kg	m/kg														
			22,0	25,0	28,0	31,0	34,0	37,0	40,0	45,0	50,0	55,0	60,0	65,0	70,0	75,0	
75,0	(r=76,6)	2,6-21,2 12000	11500	9950	8750	7770	6970	6310	5740	4970	4350	3840	3420	3070	2760	2500	
70,0	(r=71,6)	2,6-22,4 12000	12000	10620	9340	8310	7470	6760	6160	5340	4680	4150	3700	3320	3000		
65,0	(r=66,6)	2,6-23,3 12000	12000	11090	9760	8690	7810	7070	6450	5590	4910	4360	3890	3500			
60,0	(r=61,6)	2,6-24,3 12000	12000	11600	10210	9090	8180	7410	6760	5870	5160	4580	4100				
55,0	(r=56,6)	2,6-25,2 12000	12000	12000	10640	9480	8530	7740	7060	6140	5400	4800					
50,0	(r=51,6)	2,6-25,9 12000	12000	12000	11000	9800	8820	8000	7310	6360	5600						
45,0	(r=46,6)	2,6-26,4 12000	12000	12000	11230	10010	9010	8180	7470	6500							
40,0	(r=41,6)	2,6-26,8 12000	12000	12000	11410	10180	9170	8320	7600								

LM 1

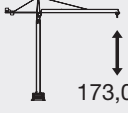


Antriebe FR.tronic®/Litronic®

Driving units / Mécanismes d'entraînement / Azionamenti / Mecanismos / Mecanismos



45 kW FU
WIW 260 MZ 402



173,0 m

max. 256,0 m**

↔ **stufenlos** / stepless / régl. continu
regl. progressiva / sin escalones / sem degraus

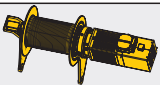
kg m/min

1 12000 0 ↔ 19
1150 0 ↔ 94


↔ **stufenlos** / stepless / régl. continu
regl. progressiva / sin escalones / sem degraus

kg m/min

1 12000 0 ↔ 27
2300 0 ↔ 96



65 kW FU
WIW 280 MZ 401

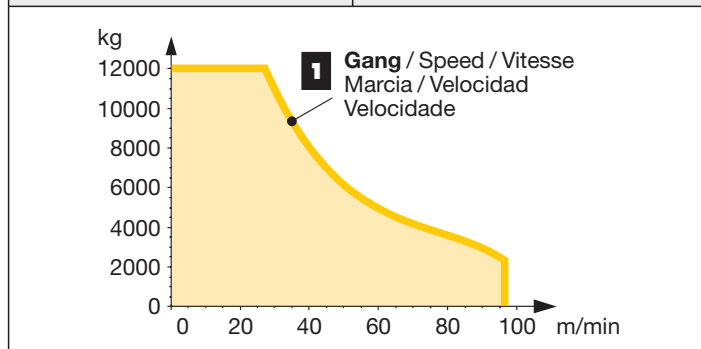
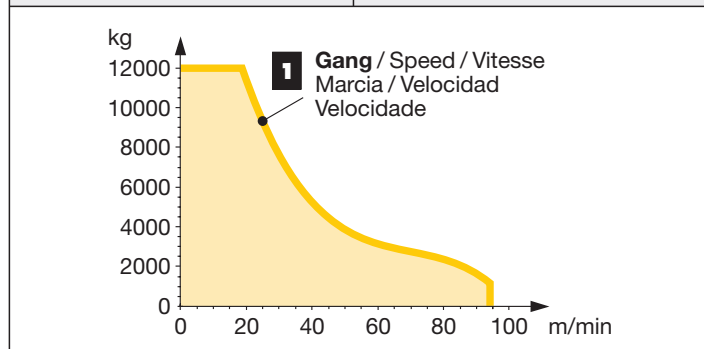


256,0 m

↔ **stufenlos** / stepless / régl. continu
regl. progressiva / sin escalones / sem degraus

kg m/min

1 12000 0 ↔ 27
2300 0 ↔ 96



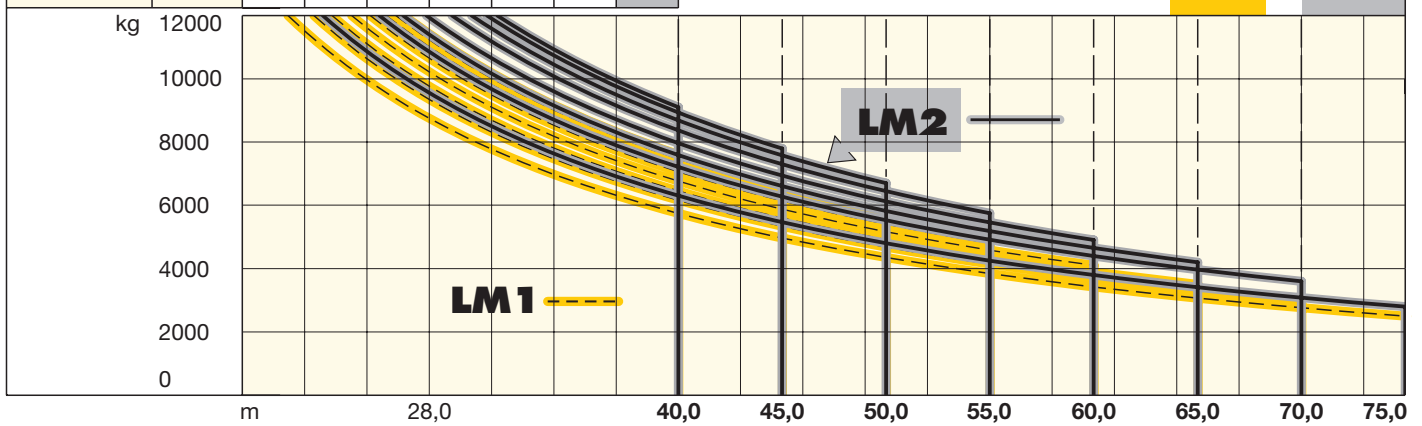
** Weitere Hublastdaten: siehe Betriebsanleitung. / Further hoist load data: see instruction manual. / Autres données de la charge de levage: voir manuel d'instruction. / Altri dati sui carichi sollevati: consultare il manuale d'istruzione. / Alturas bajo granco superiores según manual. / Outras tabelas de carga: consultar manual de instruções.

Ausladung und Tragfähigkeit

Radius and capacity / Portée et charge / Sbraccio e portata / Alcances y cargas / Alcance e capacidade de carga


		280 EC-H 12 Litronic®														
m	r	m/kg	m/kg													
			22,0	25,0	28,0	31,0	34,0	37,0	40,0	45,0	50,0	55,0	60,0	65,0	70,0	
75,0	(r=76,6)	2,6-22,9 12000	12000	10860	9560	8500	7640	6920	6310	5470	4800	4250	3800	3410	3090	2800
70,0	(r=71,6)	2,6-25,6 12000	12000	12000	10860	9680	8710	7900	7210	6270	5520	4910	4400	3970	3600	
65,0	(r=66,6)	2,6-26,7 12000	12000	12000	11400	10160	9150	8310	7590	6610	5820	5180	4650	4200		
60,0	(r=61,6)	2,6-27,9 12000	12000	12000	11940	10650	9600	8710	7970	6940	6120	5460	4900			
55,0	(r=56,6)	2,6-29,1 12000	12000	12000	12000	11180	10070	9150	8370	7300	6450	5750				
50,0	(r=51,6)	2,6-30,0 12000	12000	12000	12000	11590	10450	9500	8690	7580	6700					
45,0	(r=46,6)	2,6-30,8 12000	12000	12000	12000	11900	10740	9760	8930	7800						
40,0	(r=41,6)	2,6-31,3 12000	12000	12000	12000	12000	10930	9940	9100							

LM1 + LM2




Antriebe FR.tronic®/Litronic®

Driving units / Mécanismes d'entraînement / Azionamenti / Mecanismos / Mecanismos



65 kW FU
WIW 280 VZ 401

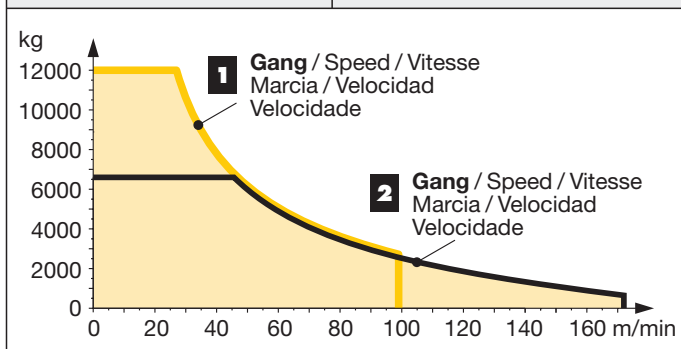



256,0 m

↔ stufenlos / stepless / régl. continu
regl. progressiva / sin escalones / sem degraus
kg m/min


7 Lagen
Layers
Couches
Strati
Camadas
Capas

1	12000	0 ↔ 27
	2300	0 ↔ 99
2	6600	0 ↔ 48
	650	0 ↔ 172





110 kW FU
WIW 300 VZ 417



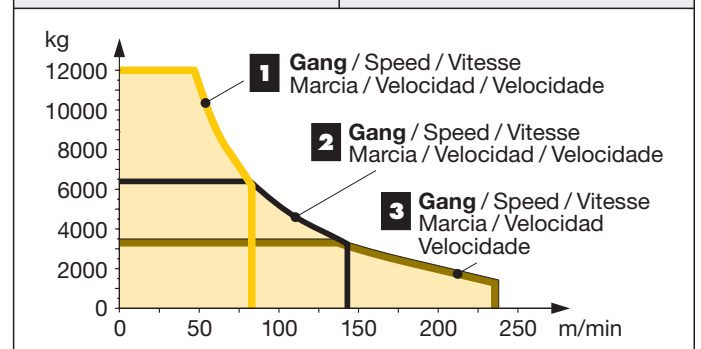
256,0 m

↔ stufenlos / stepless / régl. continu
regl. progressiva / sin escalones / sem degraus
kg m/min

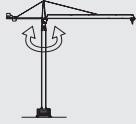
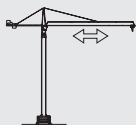
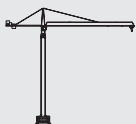
7 Lagen
Layers
Couches
Strati
Camadas
Capas


1	12000	0 ↔ 47
	5400	0 ↔ 83
2	6400	0 ↔ 82
	2800	0 ↔ 143
3	3500	0 ↔ 137
	1100	0 ↔ 238

max. 300,0 m**



LM 2 Abweichende Geschwindigkeiten und Betriebsbedingungen. / Variant speeds and service conditions. / Vitesses et conditions de fonctionnement différentes. / Differenti velocità e condizioni di funzionamento. / Otras velocidades y características de funcionamiento. / Outras velocidades e características de funcionamento.

	0 ↔ 0,7 U/min sl./min tr./min	2 x 7,5 kW FU
	0 ↔ 110,0 m/min	7,5 kW FU
	25,0 m/min	4 x 7,5 kW 500 HC (550 HC) 4 x 5,5 kW 355 HC (390 HC) 2 x 7,5 kW 256 HC (290 HC)



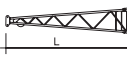



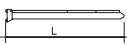





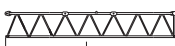









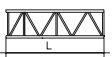



	kVA			
	45 kW FU	65 kW FU	65 kW FU	110 kW FU
	63,0	86,0	86,0	128,0

Litronic® kVA reduzierbar bei zu geringer Netz-Anschlussleistung, siehe BAL. / kVA can be reduced in case of too little power of the mains, see instruction manual. / kVA peut être réduit en cas de trop faible puissance du réseau, voir manuel d'instruction. / kVA riducibili in caso di potenza di rete ridotta (si veda manuale uso e manutenzione) / kVA variable para potencia de red demasiado pequeña, ver Manual de instrucciones. / kVA reduzível no caso de capacidade da rede elétrica muito baixa, ver manual de instruções.

Kolli-Liste

Packing List / Liste de colisage / Lista dei colli / Lista de contenido / Lista de embalagem

Montagegewichte: siehe Betriebsanleitung. / Erection weights: see instruction manual. / Poids de montage: voir manuel de service. / Pesos de montaje: vedasi le istruzioni sull'uso. / Peso para el montaje: según manual. / Pesos de montagem: vejã-se as instruções p. uso.

Kranoberteil		Upper part of crane / Partie supérieure de grue / Parte superiore della gru	Parte superior grúa / Parte superior do guindaste		L (m)	B (m)	H (m)	kg*
Pos. Item	Anz. Qty.	Drehbühne / Slewing platform / Ensemble mât-cabine / Piattaforma girevole / Conjunto plataforma de giro / Plataforma giratória			5,49	2,74	2,80	10120
Rep. Voce	Qte. Qta.		1	1				
Pos. Ref.	Cant. Cant.	Turmspitze / Tower head / Porte-flèche / Cuspide / Cabeza de torre / Cabeça de apoio de lança			9,09	1,70	1,92	2800
1	1							
3	1	Gegenausleger-Kopfstück / Counter-jib head / Pointe de contre-flèche / Testa di controbraccio / Tramo punta de contrapluma / Cabeça de contra-lança			8,48	2,45	0,92	3050
4	1							
4	1	Gegenausleger-Anlenkstück / Counter-jib heel section / Pied de contre-flèche / Settore articolato di controbraccio / Tramo primero-contrapluma / Base articulada da contra-lança			8,44	1,77	0,92	2800
5	1							
5	1	Gegenausleger-Zwischenstück / Intermediate counter-jib section / Élément interm. de contre-flèche / Spezzione di controbraccio / Tramo intermedio de contrapluma / Peça suplementar da contra-lança			5,22	1,76	0,92	1550
6	1							
6	1	Ausleger-Anlenkstück / Jib heel section / Pied de flèche / Settore articolato di braccio / Pluma tramo primero / Base articulada de lança			12,26	1,86	1,96	⊕ 2980
7	1							
7	1	Ausleger-Zwischenstück / Intermediate jib section / Élément intermédiaire de flèche / Spezzione di braccio / Tramo intermedio pluma / Peça suplementar da lança			10,26	1,63	1,87	⊕+⊕ 1880
1	1				12,28	1,63	1,86	⊕ 2260
1	1				5,32	1,63	1,86	⊕ 820
1	1				10,27	1,63	1,86	⊕ 1220
1	1				10,26	1,63	1,84	⊕ 800
1	1				5,25	1,63	1,84	⊕ 510
8	1	Ausleger-Kopfstück / Jib head section / Pointe de flèche / Punta freccia / Tramo punta de pluma / Cabeça de lança			1,70	1,88	2,05	⊕ 280
9	1							
9	1	Laufkatze und Lashaken / Trolley and hook / Chariot de distribution et crochet / Carrello con gancio / Carro y gancho / Carro de ponte e gancho			1,89	1,83	1,57	1150
10	1							
10	1	Hubwerkseinheit / Hoist gear unit / Treuil de levage / Gruppo meccanismo sollevamento / Mecanismo de elevación / Grupo de mecanismo elevatório			2,39	2,20	1,74	3300
11	9							
11	11	Turmstück / Tower section / Élément de mât / Elemento di torre / Tramo torre / Torre			256 HC 4,14	2,30	2,30	2300
13	13				355 HC 6,28	2,45	2,45	5050
					500 HC 6,28	2,45	2,45	6480
12	1	Turmstück lang / Long tower section / Élément de mât long / Elemento di torre, lungo / Tramo de torre largo / Peça de torre, comprida			256 HC 12,42	2,30	2,30	5770
13	1							
13	1	Grundturmstück / Base tower section / Mât de base / Elemento di torre base / Tramo base / Peça de base de torre			256 HC 8,85 (12,42)	2,30 (2,30)	2,30 (2,30)	4830 (7940)

Pos. Anz.
Item Qty.
Rep. Qte.
Voce Qta.
Pos. Cant.
Ref. Cant.

L (m) B (m) H (m) kg*




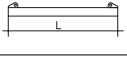

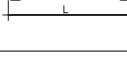

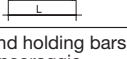
Klettereinrichtung

Climbing equipment / Equipement de télescopage / Attrezzatura per allungamento della gru
Equipo de trepado / Acesórios p. subida no edificio

14	1	Führungsstück kpl., geteilt / Guide section cpl., split Cage télescopique cpl., dévisée / Gabbia di sopraelevazione compl., suddivisa Torre de montaje, dividida / Peça de guia, subdividida	256 HC	8,39	2,68	2,58 (3,04)	5100
			355 HC	12,39	2,75	1,58	8300
			500 HC	12,39	2,75	1,58	8300
15	1	Hydraulikanlage, Stütz- und Klettertraverse / Hydraulic unit, supporting and climbing cross members / Système hydraulique avec traverses d'appui et de télescopage / Sistema hidráulico, travesa de appoggio e allungamento gru Sistema hidráulico con traviesas de apoyo y trepado / Instalação hidráulica, travessa de apoio e subida	256 HC	2,10	1,25	1,00	1150
			355 HC	2,10	1,10	1,00	1810
			500 HC	2,10	1,10	1,00	1810

Unterwagen

Undercarriage / Châssis / Carro della gru
Carro con mástil / Carro de guindaste

16	4	Ausgleichsschwinge mit Schwingenlager / Pivot for wheel box / Chape pour bogie / Bilanciere di equilibratura con cuscinetto bilanciere / Balancim com suporte		355 HC	1,60	0,72	1,48	1390
			500 HC					
17	2 4 4	Fahrschemel mit Antrieb / Rail bogie with drive Bogie moteur / Telaio con gruppo propulsore Caja rodillo motriz / Quadro sem grupo de propulsão		256 HC	1,63 (1,46)	0,92 (0,84)	0,95 (0,87)	1690 (920)
			355 HC	1,40	0,75	0,65	920	
			500 HC	1,45	0,82	0,72	1690	
18	2 4 4	Fahrschemel ohne Antrieb / Rail bogie without drive / Bogie fou / Telaio senza gruppo propulsore / Caja rodillo conducido / Quadro com grupo de propulsão		256 HC	1,37 (1,15)	0,62 (0,60)	0,95 (0,87)	1340 (880)
			355 HC	1,10	0,60	0,65	880	
			500 HC	1,30	0,40	0,72	1340	
19	1 2 2	Tragholm lang / Long support arm Longeron long / Longherone lungo Braço suporte largo / Travessa comprida		256 HC	9,10 (11,95)	0,80 (0,82)	0,80 (0,80)	1650 (2200)
			355 HC	11,82	0,92	0,93	3515	
			500 HC	7,32	0,92	0,93	2330	
20	2	Tragholm kurz / Short support arm Longeron court / Longherone corto Braço suporte curto / Travessa curta		256 HC	4,45 (5,58)	0,77 (0,65)	0,77 (0,77)	800 (1035)
			355 HC	5,74	0,80	0,90	1600	
			500 HC	7,14	0,80	0,90	2135	
21	2 + 2	Randträger / Border support Traverse / Supporti base Traviesa / Apoio de bordo		256 HC	5,46 – 5,40	0,11 – 0,18	0,16 – 0,38	175 – 525
			355 HC	7,30	0,14	0,14	340	
			500 HC	9,30	0,14	0,14	510	
22	4	Stützholm / Support strut Hauban de châssis / Correnti di appoggio Tirante vertical / Travessa de apoio		256 HC	4,14 (6,55)	0,18 (0,22)	0,25 (0,25)	320 (600)
			355 HC	6,06	0,26	0,34	862	
			500 HC	6,98	0,26	0,34	1140	
23	1	Unterwagen-Turmstück / Undercarriage tower section / Mât de châssis / Elemento di torre del carro / Tramo de carro / Peça de torre do chassis		256 HC	3,73 (6,70)	2,62 (2,53)	2,62 (2,53)	2550 (3800)
			355 HC	6,61	2,44	2,44	7475	
			500 HC	6,61	2,44	2,44	7930	
24		Kleinteile, Seile und Abspannungen / Small parts, ropes and holding bars Accessoires, câbles et tirants / Accessori, funi e attrezzi di ancoraggio Despieces, cables y tirantes / Acesórios, cabos e peças de ancoragem		256 HC	9,00	1,60	1,00	4000
			355 HC					
			500 HC					

() **Angaben in Klammern gelten für 8 m-Unterwagen.** / The data in brackets are valid for an undercarriage of 8 m. / Les données techniques indiquées entre parenthèses sont valables pour un châssis de 8 m. / Caratteristiche in (.) valgono per carro di 8 m. / Los datos entre paréntesis son válidos para carro de 8 m. / Características em (.) válidas pelo chassis de 8 m.

* **Einzelgewichte.** / Single weights. / Poids individuels. / Pesì di componenti. / Pesos unitarios. / Pesos de peças componentes.

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